



# Technical Data Sheet

## FS11 Cable Coating

<b>Description</b>	Intumescent Fire Protection Coating for electrical cables
<b>Fire Rating</b>	<b>FS11</b> – Up to 90 minutes under IEC60331-11
<b>Approvals</b>	Germanischer Lloyd, IEC 60332-3 cat. A / U 97085   Germanischer Lloyd, IEC 60331-21 (90 minutes)   DNV
<b>Test Supervision</b>	Official Material Testing Laboratory for the Building Industry, Brunswick
<b>Application Areas</b>	<b>FS11</b> is assessed as a fire protection coating for: <ul style="list-style-type: none"> <li>• Electrical cable either single, grouped or in horizontal or vertical tray</li> <li>• Supporting cable structures</li> <li>• For interior use</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Colour: White</li> <li>• Intumescent Coating</li> <li>• Solvent free</li> <li>• Latex binder</li> <li>• Fibre free</li> <li>• Flexible</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>• Stir thoroughly before application</li> </ul> recommended conditions for application: <ul style="list-style-type: none"> <li>• Material- and air-temperature &gt; 5°C, humidity &lt; 80%</li> <li>• <b>FS11</b> has to be stirred thoroughly before application by a slow running stirrer</li> <li>• Application by brush, roller or airless spraying</li> <li>• Recommended tip size for airless spraying: 0.017" – 0.019"</li> <li>• Pressure at least 200 bar</li> </ul> coverage rate: <ul style="list-style-type: none"> <li>• Approx. 1.6 mm wet = 1.00 mm dry = approx. 1.8 kg/m<sup>2</sup></li> <li>• perforated or slotted plates with a width of 15 mm have to be installed on vertical oriented cable trays alongside the clamps</li> <li>• Thinning: max. 3 % water</li> </ul>
<b>Drying</b>	<ul style="list-style-type: none"> <li>• At 20°C object temperature and 65% relative</li> <li>• Dust dry: approx. 3 hours</li> <li>• Touch dry: approx. 6 hours</li> <li>• Full cure: approx. Min. 14 Days</li> </ul>
<b>Calculation of coverage without wastage</b>	<p><b>Single cable:</b></p> <ul style="list-style-type: none"> <li>• <math>d \times 3.14 \times 1.05 \times 1.7 = \text{kg/m}</math></li> </ul> <p><b>Cable bundle:</b></p> <ul style="list-style-type: none"> <li>• <math>d \times 3.14 \times 1.4 \times 1.05 \times 1.7 = \text{kg/m}</math></li> </ul> <p><b>Cable bundle on cable tray:</b></p> <ul style="list-style-type: none"> <li>• <math>f(4 \times h) + (2 \times b) + (d \times 1.4)g \times 1.05 \times 1.7 = \text{kg/m}</math></li> </ul> <p> d = diameter of cable or cable loom in m  3.14 = phi  1.05 = coefficient of spraying loss  1.7 = coverage rate kg/m<sup>2</sup>  1.4 = coefficient of increase of surface based on crotches  h = height of cable tray in m  b = width of cable tray in m </p>

<b>Transport / Storage</b>	<ul style="list-style-type: none"> <li>• Transport and storage free from frost- preferably at a minimum of +5°C to a maximum of +30°C</li> <li>• Shelf-life of unopened pails: 12 month from date of manufacture</li> <li>• Opened pails must be sealed completely</li> </ul>
<b>Packaging</b>	<ul style="list-style-type: none"> <li>• 25 kg net weight (19 Litres or 5 Gallons)</li> <li>• plastic pails</li> <li>• other sizes on request</li> </ul>
<b>Precautions for Safety Use</b>	Use <b>FS11</b> indoor in accordance with all applicable local and national regulations
<b>Environment Health and Safety</b>	<ul style="list-style-type: none"> <li>• Non-Hazardous   Non-Toxic</li> <li>• As regulations are often revised please request for the actual safety data sheet before using the product</li> </ul>

Disclaimer: The above data, particularly the recommendations for the application and use of Fire Security products are based on the manufacturer's knowledge and experience. Due to different materials and conditions of application, which are beyond our control, we recommend in any case carrying out sufficient tests in order to ensure that Fire Security products are suitable for the intended processes and applications. Therefore, any liability for such recommendations or any oral advice is expressly excluded unless we have acted willfully or by gross negligence. It is always the responsibility of the installer / purchaser to guarantee correct preparation, DFT (Fire Security Coatings) and thickness (Fire Security Firestop Products) of all Fire Security products. Fire Security Systems is not liable for installation or faulty installation. It is always the responsibility of the installer / purchaser to guarantee and certify the installation of materials.



#### **FIRE SECURITY SYSTEMS**

##### **Canada:**

PO Box 21096, Coquitlam BC V3E 3P9 Canada  
Tel: +1 604 941 1001 Fax: +1 604 648 9311

##### **Norway:**

Skibåsen 20b -4636 Kristiansand Norway  
Tel: + 47 95 47 80 00 Fax: +47 38 02 15 31

[mail@fire-security.net](mailto:mail@fire-security.net)

[www.Fire-Security.net](http://www.Fire-Security.net)

##### **Dubai, UAE:**

PO Box 40068 Ajman - UAE  
Tel: +971 6 7478842 Fax: +971 6 7478843